



Lightweight, Low Cost Chemical/Biological Resistant Tentage Materials

What It Is:

Desert heat, wind, rain, arctic cold...tents are exposed to all these harsh elements of the environment. We're developing a family of affordable materials that will perform in these conditions and resist chemical and biological (CB) agents, resist ultraviolet radiation and retard flame.

Why It's Needed:

Two CB-resistant materials are currently used in shelters. One is a low cost, disposable liner material that lacks flame and ultraviolet resistance. It doubles the weight, volume and set-up time of a shelter system. The other material is a proprietary laminate that is fairly difficult to manufacture and also rather expensive.

How It Works:

The most promising new tentage materials will be stronger and more durable than materials available now. We're studying four different candidates:

- High performance and decontaminable material;
- Low cost and disposable material;
- Modified TEMPER material (used for our general purpose tent);
- Self-decontaminating material.

Benefits:

Improved Performance...Our high performance material should cost 50% less, weigh 25% less and offer better abrasion resistance.

Smooth Production...Ease of manufacturing will be a major factor as we select new CB-resistant materials.

Point of Contact:

Collective Protection Liaison

COMM: (508) 233-5244, DSN: 256-5244

E-MAIL: amssb-rip@natick.army.mil

**NATICK
SOLDIER
CENTER**

Kansas St.
Natick, MA
01760
nsc.natick.army.mil